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1. Identification of the substance/mixture and of the company/undertaking

Activator for Corlar® 2.1 PR and Corlar® 2.1 ST **Product name**

Product code VF-525 Formula date: 2014-03-21

Intended use Hardener for professional use

> Axalta Coating Systems, LLC Applied Corporate Center

50 Applied Bank Boulevard, Suite 300

US Glen Mills, PA 19342

Telephone Product information (855) 6-AXALTA

Medical emergency (855) 274-5698

(800) 424-9300 (CHEMTREC) Transportation emergency

2. Hazards identification

This preparation is hazardous per the following GHS criteria

GHS-Classification

Flammable liquids Category 2 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Skin sensitisation Category 1 Toxicity for reproduction Category 2 Target Organ Systemic Toxicant - Repeated exposure Category 2

Endpoints which are "not classified", "cannot classified" and "not applicable" are not shown.

GHS-Labelling

Hazard symbols







Signal word: Danger

Hazard statements

Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Obtain special instructions before use.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Contaminated work clothing should not be allowed out of the workplace.

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Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of soap and water.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/ attention.

Specific treatment (see supplemental first aid instructions on this label).

If skin irritation or rash occurs: Get medical advice/ attention.

If eye irritation persists: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local regulations.

Other hazards which do not result in classification

Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 0 %

3. Composition/information on ingredients

Mixture of synthetic resins and solvents

Components

CAS-No.	Chemical Name	Concentration
25068-38-6	Bisphenol-epichlorohydrin type polymer	26 - 37%
108-88-3	Toluene	10%
141-78-6	Ethyl acetate	4 - 15%
71-36-3	N-butyl alcohol	2%

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Non-regulated ingredients 40 - 50%

OSHA Hazardous: Yes

4. First aid measures

Eve contact

Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact

Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation

Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion

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If swallowed, seek medical advice immediately and show this safety data sheet (SDS) or product label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion

May result in gastrointestinal distress.

Skin or eye contact

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Indication of Immediate medical attention and special treatment needed if necessary

No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media

Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical

Extinguishing media which shall not be used for safety reasons

High volume water jet

Hazardous combustion products

CO, CO2, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

Fire and Explosion Hazards

Flammable liquid. Vapor/air mixture will burn when an ignition source is present.

Special Protective Equipment and Fire Fighting Procedures

Full protective flameproof clothing should be worn as appropriate. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray. Do not allow run-off from fire fighting to enter public sewer systems or public waterways.

6. Accidental release measures

Procedures for cleaning up spills or leaks

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly.

Environmental precautions

Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

7. Handling and storage

Precautions for safe handling

Observe label precautions. Keep away from heat, sparks, flame, static discharge and other sources of ignition. VAPORS MAY CAUSE FLASH FIRE. Close container after each use. Ground containers when pouring. Do not transfer contents to bottles or unlabeled containers. Wash thoroughly after handling and before eating or smoking. Do not store above 49 °C (120 °F). If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters

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or appropriate ventilation, and gloves. Combustible dust clouds may be created where operations produce fine material (dust). Avoid formation of significant deposits of material as they may become airborne and form combustible dust clouds. Build up of fine material should be cleaned using gentle sweeping or vacuuming in accordance with best practices. Cleaning methods (e.g. compressed air) which can generate potentially combustible dust clouds should not be used.

Advice on protection against fire and explosion

Solvent vapours are heavier than air and may spread along floors. Vapors may form explosive mixtures with air and will burn when an ignition source is present. Always keep in containers of same material as the original one. Never use pressure to empty container: container is not a pressure vessel. The accumulation of contaminated rags may result in spontaneous combustion. Good housekeeping standards and regular safe removal of waste materials will minimize the risks of spontaneous combustion and other fire hazards.

Storage

Requirements for storage areas and containers

Observe label precautions. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Advice on common storage

Store separately from oxidizing agents and strongly alkaline and strongly acidic materials.

OSHA/NFPA Storage Classification: IB

8. Exposure controls/personal protection

Engineering controls and work practices

Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

National occupational exposure limits

CAS-No.	Chemical Name	Source Time	Type	Value	Note	
108-88-3	Toluene	OSHA	CEIL	300 ppm		
		OSHA 10 min	TWA	500 ppm		
		OSHA 8 hr	TWA	200 ppm		
		Dupont 8 & 12	TWA	20 ppm	Skin	
		hour				
141 70 6	Ethyl pootata	ACCIL o br	T\\/\	400 ppm		
141-70-0	Elliyi acelale					
		OSHA 8111	IVVA	400 ppm		
71-36-3	N-butyl alcohol	ACGIH 8 hr	TWA	20 ppm		
	•	OSHA 8 hr	TWA	100 ppm		
		Dupont 15 min	TWA	50 ppm		
		Dupont 8 & 12	TWA	25 ppm		
		hour				
-	-					
CEIL	Ceiling.					
TWA	Time-weighted average.					
- CEIL	- Ceiling.	ACGIH 8 hr OSHA 8 hr ACGIH 8 hr OSHA 8 hr Dupont 15 min Dupont 8 & 12	TWA TWA	100 ppm 50 ppm		

Protective equipment

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection

Eye protection

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

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Skin and body protection

Neoprene gloves and coveralls are recommended.

Hygiene measures

Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

Environmental exposure controls

Do not let product enter drains.

For ecological information, refer to Ecological Information Section 12.

9. Physical and chemical properties

Appearance

Form: liquid Colour: brown Odour: Characteristic Paint Odor

Flash point 50 °F Lower Explosive Limit 1.1 % Upper Explosive Limit 11.4 %

Evapouration rate Slower than Ether Vapor pressure of principal solvent 9.3 hPa Water solubility partly miscible

Vapor density of principal solvent (Air = 1) 3.1 Approx. Boiling Range 70 °C Approx. Freezing Range Not applicable. Gallon Weight (lbs/gal) 10.77 Specific Gravity 1.29 Percent Volatile By Volume 28.15% Percent Volatile By Weight 19.01% Percent Solids By Volume 71.86%

Percent Solids By Weight 80.99% pH (waterborne systems only) not applicable Partition coefficient: n-octanol/water no data available

301 °C Ignition temperature DIN 51794 Not applicable.

Decomposition temperature

Viscosity (23 °C) Not applicable. ISO 2431-1993

VOC* less exempt (lbs/gal) 2.0 VOC* as packaged (lbs/gal) 2.0

10. Stability and reactivity

Stability

Stable

Conditions to avoid

Stable under recommended storage and handling conditions (see section 7).

Materials to avoid

None reasonably foreseeable.

^{*} VOC less exempt (theoretical) and VOC as packaged (theoretical) are based upon the VOC of the packaged material at the point of manufacture.

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Hazardous decomposition products

The product contains ingredients which, under certain conditions, also may release formaldehyde. If necessary, the precise concentration has to be determined. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

Hazardous Polymerization

Will not occur.

Sensitivity to Static Discharge

Solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

Sensitivity to Mechanical Impact

None known.

11. Toxicological information

Information on likely routes of exposure

Inhalation

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion

May result in gastrointestinal distress.

Skin or eye contact

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity

not hazardous

Acute dermal toxicity

not hazardous

Acute inhalation toxicity

not hazardous

% of unknown composition: 0 %

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Skin corrosion/irritation

Bisphenol-epichlorohydrin type polymer
Toluene
Category 2
Ethyl acetate
Category 3
N-butyl alcohol
Category 2

Serious eye damage/eye irritation

Bisphenol-epichlorohydrin type polymer Category 2A Ethyl acetate Category 2A N-butyl alcohol Category 1

Respiratory sensitisation

Not classified according to GHS criteria

Skin sensitisation

Bisphenol-epichlorohydrin type polymer Category 1

Germ cell mutagenicity

Not classified according to GHS criteria

Carcinogenicity

Not classified according to GHS criteria

Toxicity for reproduction

Toluene Category 2

Target Organ Systemic Toxicant - Single exposure

Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure

Skin Absorption

Body weight effects Ethyl acetate

Aspiration toxicity

Not classified according to GHS criteria

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Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)

No information available.

Symptoms related to the physical, chemical and toxicological characteristics

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Based on the properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitiser and an irritant. Low molecular epoxy constituents are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies. Avoid skin and eye contact. Avoid inhalation of vapour or mist.

Whether the hazardous chemical is listed by NTP, IARC or OSHA

12. Ecological information

There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

13. Disposal considerations

Waste Disposal Method

Do not allow material to contaminate ground water systems. Incinerate or otherwise dispose of waste material in accordance with Federal, State, Provincial, and local requirements. Do not incinerate in closed containers.

14. Transport information

International transport regulations

IMDG (Sea transport)

UN number: 126

Proper shipping name: PAINT RELATED MATERIAL

Hazard Class: 3

Subsidiary Hazard Class: Not applicable.

Packing group:

Marine Pollutant: yes [epoxy resin (number average molecular weight <= 700)]

EmS: F-E,S-E

ICAO/IATA (Air transport)

UN number: 126

Proper shipping name: PAINT RELATED MATERIAL

Hazard Class: 3

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Subsidiary Hazard Class: Not applicable.

Packing group:

DOT

UN number: 1263

Proper shipping name: PAINT RELATED MATERIAL

Hazard Class: 3

Subsidiary Hazard Class: Not applicable.

Packing group:

Marine Pollutant: yes [epoxy resin (number average molecular weight <= 700)]

The transport information is for bulk shipments. Exceptions may apply for smaller containers.

Matters needing attention for transportation

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

TSCA Status

In compliance with TSCA Inventory requirements for commercial purposes.

DSL Status

All components of the mixture are listed on the DSL.

Photochemical Reactivity

Photochemically reactive

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Regulatory information

		EPCRA				CERCLA	CAA		
CAS#	Ingredient	302	TPQ	RQ	311/312	313	RQ(lbs)	HAP	
25068-38-6	Bisphenol-epichlorohydrin	N	NR	NR	A,C,F,N,P,R	N	NR	N	
	type polymer								
108-88-3	Toluene	Ν	NR	NR	A,C,F,N,P,R	Υ	1,000	Υ	
141-78-6	Ethyl acetate	Ν	NR	NR	C,F	Ν	NR	Ν	
71-36-3	N-butyl alcohol	Ν	NR	NR	A,C,F,N,P,R	Υ	5,000	Ν	

Key:

EPCRA

Emergency Planning and Community Right-to-know Act (aka Title III, SARA)

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302 Extremely hazardous substances

311/312 Categories F = Fire Hazard A = Acute Hazard

R = Reactivity Hazard C = Chronic Hazard

P = Pressure Related Hazard

313 Information Section 313 Supplier Notification - The chemicals listed above with

a 'Y' in the 313 column are subject to reporting requirements of Section 313 of the Emergency Planning and Community

Right-to-Know act of 1986 and of 40 CFR 372.

CERCLA Comprehensive Emergency Response, Compensation and Liability Act of 1980.

Listed as a Clean Air Act Hazardous Air Pollutant. HAP

TPQ Threshold Planning Quantity.

Reportable Quantity RQ NA not available NR not regulated

16. Other information

HMIS rating H: 2 F: 3 R: 0

Glossary of Terms:

ACGIH | American Conference of Governmental Industrial Hygienists.

IARC International Agency for Research on Cancer.

NTP National Toxicology Program. Occupational Exposure Limit OEL

OSHA Occupational Safety and Health Administration.

STEL Short term exposure limit. TWA Time-weighted average. PNOR Particles not otherwise regulated. PNOC Particles not otherwise classified.

NOTE: The list (above) of glossary terms may be modified.

Notice from Axalta Coating Systems:

The document reflects information provided to Axalta Coating Systems by its suppliers. Information is accurate to the best of our knowledge and is subject to change as new data is received by Axalta Coating Systems. Persons receiving this information should make their own determination as to its suitability for their purposes prior to use.

The information on this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

SDS prepared by: Axalta Coating Systems Regulatory Affairs

Report version

Version Changes

5.1 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

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(855) 6-AXALTA axalta.us